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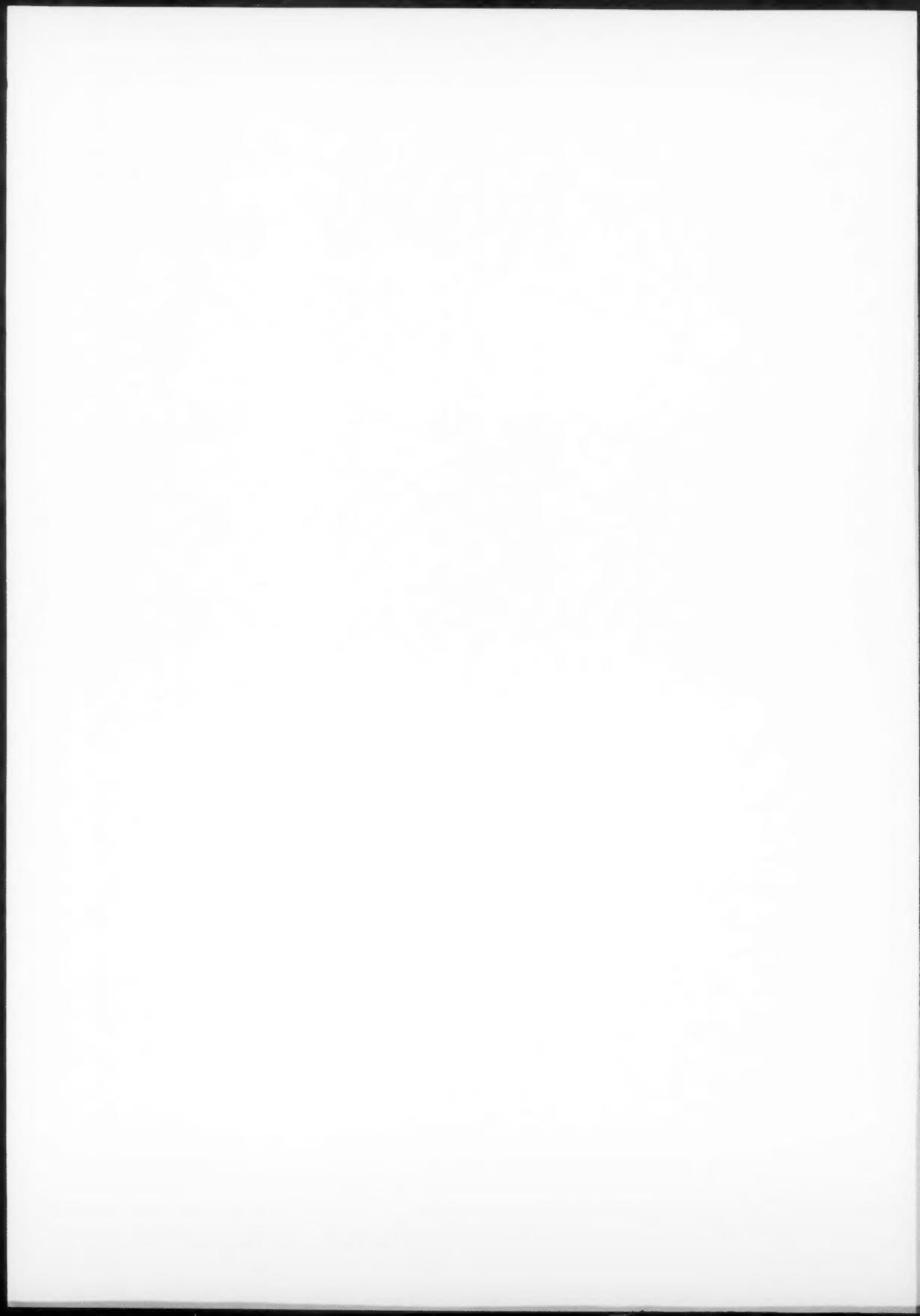
Yaprak, E., A.T. Chronopoulos, K. Psarris and Y. Xiao, Dynamic buffer allocation in an ATM switch (18) 1927

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